How Robotics and AI Can Help Prepare Students for Future Workforce Needs

In the uprising Artificial Intelligence era we have disadvantages and advantages where we are following the roots of our basic subjects like Robotics & AI , Information & Technology, and Computer science. These subjects help us to learn the basic assets of industry where we perform the practicals in colleges and gain the knowledge of programmable languages like JavaScript, C++, Python, SQL, and many more and the interesting part is that we have having very good form-set of the companies in the India where we are giving lot of job opportunities to our youth generation. As we know if we have the advantage of something then we also have the disadvantages too or I say we always need to find new growth in our knowledge assets and need to develop new skills as per the growth of modern technology.

Yes, well you understood my point correctly, as the rapid growth of building the future with artificial intelligence is also causing job layoffs. Today's industries and big companies because of AI's quick growth firing their employees. The reason is very basic & understandable because the AI can give you the quick result and where it took 36 to 48 hours to complete the team projects the AI can easily complete the project in 6 to 8 hours. Companies can work with engineers remotely by using this modern technology and as per the durability and agility of the work and the fruit full results, the layoffs are happening.

Now the question is how can we solve this problem in this daily rapid growth. For this, we just need to learn the mix-up of IT and technology together where students need to take the knowledge of both the software and hardware. So, that they can understand the requirements of the future clients and the organizations. This approach will help the young youth with the complete job profile and the knowledge required to get good opportunities.

HOW the STEM education Company Builds the Job Opportunity

Well if we look on the positive side of our education industry then we proudly say that our STEM education Company taking the initiative to enhance the modern 21st century skills for students and teachers where they not only give the kits to experiments or provide notes to learn.

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Our STEM Certified educators help young brains to explore the vision of becoming engineers and experts in their field and when we say engineers that means great engineers if someone pursues a medical course that would also not be a problem because in the modern age era where we are living the doctors also use medical machines for treating the patience and increase the chances of living for them.

At the initial stage, they learn all these steps and take humanity on the right path of using the technology correctly. In this ongoing process, STEM Lab or ATAL Tinkering Labs help the students to learn more new concepts where they apply those

new concepts in the practicals. Later on, when they understand the importance of the components and the tech. The use in the lab will take them to the path of making innovation and who knows by applying those concepts one day they become entrepreneurs and hold the businesses with the learning they adapt in the STEM Lab or ATAL Tinkering Labs.

Government Initiative for the Future Job

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Now the important question is what kind of initiatives our government is taking for the future youth like Make in India, skill India Mission, and many more where they encourage the youth to increase their self-esteem for more hard work in different fields.

Not only this but our government started the concept of robotics labs like Atal Tinkering Lab which we all recently observed at its peak in the schools organizing competitions like Inspire Manak Award, ATL Marathon, ATL Tinker Lab, and School Innovation Marathon. These competitions help the students to explore new projects and they make Innovative projects with the help of the ATL & STEM Mentors. Schools can also make these projects patent with the help of government support and in all these pointers one most important thing is this will become the initial and first step for becoming the Engineer who will be like the future workforce required for the future growth of our country.

The future of AI gives both immense opportunities and significant challenges to future learners & engineers. On the positive end, it enhances productivity and innovation, disrupts traditional job roles, and initiates the need for continuous learning and skill development. To adapt this, we require a balanced approach that integrates software and hardware knowledge to the upcoming engineers and learners which is essential for them to stay relevant and competitive in the job market.

Well, not only this but also the STEM education and Atal Tinkering Labs have proven the invaluable presence in empowering students to adapt to technological advancements. By fostering creativity, problem-solving, and technical expertise, these platforms nurture the young mind, future engineers, innovators, and entrepreneurs. The government programs include Make in India and Skill India. These efforts, provide a robust foundation for the youth to explore various fields related to the tech field, especially artificial intelligence. By equipping our younger generation with the right tools, knowledge, and mindset, we can ensure they become not just contributors but leaders in building a future where technology and humanity coexist together.

Searching for the perfect setup for Atal Tinkering Labs, STEM Labs, AI Labs, Robotics lab, AR & VR Labs, or Composite Skill Labs? Look no further! STEMROBO offers a one-stop solution to equip your school with innovative lab setups.

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